

**AMENDMENTS TO THE CLAIMS:**

Please amend claims 8 and 11. This listing of claims will replace all prior versions and listings of claims in the Application:

**Claims 1-7 (previously canceled)**

**Claim 8 (currently amended):** [[An]] A method for forming an optical element forming method, comprising the steps of:

forming on a substrate a multilayer film composed of alternating layers of high refractive index material and low refractive index material; ~~on a substrate to control a~~ irradiating the resulting element and detecting phase and [[an]] amplitude of emerging rays[[,]]; and

adjusting a wavefront phase of the emerging rays by cutting away a portion of a surface thereby roughening the surface of the multilayer film in accordance with an amount of adjustment of the wavefront phase.

**Claim 9 (original):** An optical element forming method according to claim 8, wherein the multilayer film is formed in a number of cycles larger than that necessary to saturate a reflectance.

**Claim 10 (previously presented):** An optical element forming method according to claim 8, wherein cutting-away of the multilayer film is controlled by detecting a difference between a plurality of materials that forms the multilayer film.

**Claim 11 (currently amended):** An optical element forming method, comprising the steps of:

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forming on a substrate a multilayer film composed of alternating layers of high refractive index material and low refractive index material ~~on a substrate~~ in a number of cycles larger than that necessary to saturate a reflectance[[,]]; ~~further~~

forming a correction film on the multilayer film[[,]];  
irradiating the resulting element and detecting emerging rays; and  
cutting away a portion of a surface thereby roughening the surface of the correction film or the correction film and the multilayer film in accordance with an amount of adjustment of a wavefront phase of emerging rays.

**Claims 12-27 (previously canceled)**

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